## Index of Claims

Rejected

Allowed

| Ī | Application No. | Applicant(s)   |
|---|-----------------|----------------|
|   | 10/721,934      | GIESEKE ET AL. |
|   | Examiner        | Art Unit       |

1724

Jason M. Greene

| _ | (Through numeral)<br>Cancelled | 1 | Non-Elected  | A | Appeal   |  |  |  |  |
|---|--------------------------------|---|--------------|---|----------|--|--|--|--|
| ÷ | Restricted                     | 1 | Interference | 0 | Objected |  |  |  |  |

| Cla  | aim      | I.            |                |           |              | С        | ate      | е        |          |          |          | ]    | Cla         | aim      |                 | _       |          | Date     |               |          |          |            | Cli           | aim        |              |              |              | Dat          | е               |          |          |          |
|--|----------|---------------|----------------|-----------|--------------|----------|----------|----------|----------|----------|----------|------|-------------|----------|-----------------|---------|----------|----------|---------------|----------|----------|------------|---------------|------------|--------------|--------------|--------------|--------------|-----------------|----------|----------|----------|
|  | a a      | 19            | 8              | 0         |              |          |          |          |          |          |          |      | _           | =        |                 |         |          |          |               |          |          |            |               | लं         |              |              |              |              |                 |          |          | 1        |
| Final  | Original | 16            | 7              |           |              |          |          |          |          |          | l        | ÷    | Final       | Original |                 |         |          |          | 1             |          |          | 1,5        | Final         | Original   |              |              |              |              |                 |          |          | -        |
| ΙŒ   | Ö        | بنظ           | 16,            | 4         |              |          |          |          |          | !        | l        | ·    | 证           | Š        |                 |         |          |          |               |          |          |            | üΞ            | 9ri        |              |              |              |              |                 |          |          |          |
|  |          | 77            | 1              | 4         | 1            | _        |          |          | _        | L_       | _        |      |             | I        | Ш               | _       | $\perp$  | Ц        | _ _           |          | <u> </u> |            |               |            | Щ            | _            | _            | 4            | <u> </u>        |          | 4        | $\dashv$ |
| <u> </u>   | 1        | ╁.            | ╀              | +         | +            | 4        | _        |          | <u> </u> |          | <u> </u> | ř :  |             | 51       |                 |         | _        | $\sqcup$ | _ _           | 4_       | _        | - ; ;      |               | 101        |              | 4            | 4            | 1_           | <u> </u>        | Ц        | 4        | _        |
| <u> </u>   | 2        | ╀             | ╀              | +         | $\dashv$     |          | _        | _        | _        | L        | -        |      |             | 52       | $\vdash$        | 4       | +        | $\vdash$ | -             |          | <u> </u> |            |               | 102        | $\dashv$     | - -          |              | 4-           | ↓               | $\vdash$ | +        | 4        |
|  | 3        | ╁             | ╀              | +         | -            | $\dashv$ |          | <u> </u> | L        | ┢        | _        |      |             | 53       | $\vdash$        | +       | -        | $\vdash$ |               |          |          |            |               | 103        | -            | +            | -            | +-           | _               | Н        | +        | 4        |
| -  | 4        | ╀             | ╀              | +         |              | 4        |          | _        | ⊢        | <u> </u> | ⊢        | 200  |             | 54       | $\vdash$        | 4       | +-       | $\vdash$ |               | —        | H        | - 5<br>3   |               | 104        |              | -+-          | +            | +            | $\vdash$        | $\vdash$ | +        | $\dashv$ |
| <u> </u>   | 5        | ╁             | ╀              | +         | +            | $\dashv$ |          | ├        | ⊢        | ├        | ┝        |      | ·           | 55<br>56 | $\vdash$        | +       | +        | H        | +             | +        |          |            |               | 105<br>106 |              |              | - -          | +-           | ⊢               | H        | +        | $\dashv$ |
| -  | 7        | ╁             | ╁              | +         | +            | -+       |          |          |          | ├        | ├        | 1    | <del></del> | 57       |                 | +       | +        | $\vdash$ |               | +        | -        |            |               | 107        | -            | +            | +            | +            | $\vdash$        | $\vdash$ | +        | $\dashv$ |
|  | 8        | +             | +              | +         | +            | $\dashv$ |          | -        | $\vdash$ | $\vdash$ | $\vdash$ | 43   |             | 58       | $\vdash$        | +       | ┿        | $\vdash$ | -             | ┼~       |          | 7 <u>1</u> |               | 108        |              | +            | +            | +            | ⊢               | $\vdash$ | $\dashv$ | $\dashv$ |
| $\vdash$   | 9        | ╁╌            | ╁              | +         | +            | $\dashv$ |          | ┝        | ├        |          | _        |      |             | 59       | $\vdash$        | +       | - -      | $\vdash$ |               | +        | -        | )<br>)     |               | 109        | -            | +            |              | ╁            | ┢               | $\dashv$ | +        | $\dashv$ |
|  | 10       | +             | ╁              | ╁         | +            | $\dashv$ | _        | _        | -        |          |          | Z.   |             | 60       |                 | +       | ╁        | Н        | +             | +        | -        |            |               | 110        | $\dashv$     | -            | +            | +-           | ┝               | $\vdash$ | +        | {        |
|  | 11       | +             | +              | +         | +            | $\dashv$ | -        | $\vdash$ | $\vdash$ |          | -        |      |             | 61       |                 | +       | +        | $\vdash$ | +             | +        |          | 7.1        |               | 111        |              | +            | +            | +            | -               | $\dashv$ | $\dashv$ | $\dashv$ |
| <u> </u>   | 12       | +             | +              | +         | -            | 1        | -        | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$ |      |             | 62       | $\vdash$        | +       | +        | $\vdash$ |               | +-       | $\vdash$ |            |               | 112        | -+           |              | +            | +            | <del> </del> —  | $\vdash$ | $\dashv$ | $\dashv$ |
| Η.   | 13       | ╁             | +              | +         | +            | +        | -        | ┝        | Ľ.       | -        | -        |      |             | 63       |                 | +       | +        | $\vdash$ | +             | +        | $\vdash$ |            |               | 113        | $\dashv$     | +            | +            | +            | +-              | $\vdash$ | +        | $\dashv$ |
| <b></b>  | 14       | T             | +              | +         | +            | +        | $\dashv$ |          |          |          | -        |      |             | 64       | -               | +       | +        | $\vdash$ | +             | +        | $\vdash$ | 7          |               | 114        | -            | +            | +            | +            | -               | $\vdash$ | +        | $\dashv$ |
| <del> </del>                                     | 15       | +             | +              | +         | +            | $\dashv$ | -        | -        | _        | -        | -        |      | -           | 65       | $\vdash \vdash$ | +       | +        | $\vdash$ | +             | +        | Н        | . 3        |               | 115        | -+           | -+-          |              | +            | $\vdash$        | $\vdash$ | +        | $\dashv$ |
| -  | 16       | +             | Ť              | $\dagger$ | +            | +        | $\vdash$ | -        |          |          | -        |      | -           | 66       | $\vdash$        | 十       | +        | H        | +             | +        | $\vdash$ | 4: 3       |               | 116        |              | +            | +            | +            | $\vdash$        | $\dashv$ | +        | $\dashv$ |
| -  | 17       | +             | 1              | †         | +            | 7        | $\dashv$ | ١        |          | <u> </u> | -        |      |             | 67       | $\vdash \vdash$ | +       | ╁        | H        | +             | +        |          |            |               | 117        | $\dashv$     | +            | +            | +            | $\vdash$        | -        | +        | $\dashv$ |
| <u> </u>   | 18       | 1             | +              | +         | +            | +        | $\dashv$ | $\vdash$ |          |          | _        |      |             | 68       | $\vdash \vdash$ | +       | +        | 1        | -             | $\vdash$ | $\vdash$ | 7          |               | 118        | $\dashv$     | +            | +-           | +            | $\vdash$        | $\dashv$ | +        | $\dashv$ |
|  | 19       | +             | +              | +         | +            | +        | $\dashv$ | _        |          | -        |          | 7    |             | 69       | H               | +       | +        | $\vdash$ |               | +        |          |            |               | 119        | - +          | +            | +            | +            |                 | +        | +        | =        |
| <u> </u>   | 20       |               | 1              | +         | +            | 1        | _        | ·        |          | -        | _        |      |             | 70       |                 | +       | +        | H        |               | 1        | Н        |            |               | 120        | $\dashv$     |              | +            | +            |                 | $\dashv$ | +        | 7        |
| 7  | 21       | =             | 7              | 1         | $\top$       | 7        |          | _        |          |          |          |      |             | 71       |                 | _       | 1        | H        | _             | 1        | $\vdash$ |            |               | 121        |              | 1            | +            | +            | H               | $\dashv$ | 十        | 7        |
| 2  | 22       | 7             | Ĭ              | +         | T            | 1        |          |          |          |          |          |      |             | 72       | $\vdash$        | Ť       | †        | H        | _             |          | Н        |            |               | 122        | $\neg$       | $^{+}$       | +            | +            | 一               | $\dashv$ | -        | $\dashv$ |
| 3  | 23       | Ħ             | Ħ              | T         | $\neg$       | 7        | ╗        |          |          |          |          | l    |             | 73       | $\Box$          | 十       | 1        | П        | _             | +        | Н        |            |               | 123        | $\neg$       | +            | +            | +            | -               | T        | 十        | ┪        |
| 4  | 24       | 1             | 11             | T         | $\top$       | ┪        |          |          |          |          |          |      |             | 74       |                 | $\top$  | 1        | П        | $\top$        | 1        | П        |            |               | 124        | $\dashv$     | $\top$       | $\top$       | T            |                 |          | $\dashv$ | ┨        |
| 5  | 25       | П             |                | 1         | T            | 7        |          |          |          |          |          |      |             | 75       |                 | _       | 1        | П        |               | 1        |          |            |               | 125        | T            | $\top$       |              | <del> </del> | <b></b> -       |          | 十        | 7        |
|  | 26       | 11            |                | T         |              | 7        |          |          |          |          |          | :    |             | 76       | $\Box$          | _       | 1        |          | $\top$        |          | Н        |            |               | 126        | $\neg$       | $\top$       | $\top$       | 1            | _               | _        | 十        | ヿ        |
| 2  | 27       | П             |                | Τ         | Т            |          |          |          |          |          |          |      |             | 77       |                 |         | 1        | П        | $\top$        |          |          |            |               | 127        | $\exists$    | $\top$       | $\top$       | $\top$       |                 | $\neg$   | $\top$   | 7        |
| 289  | 28       | П             |                | Ι         |              |          |          |          |          |          |          | 1    |             | 78       | П               |         |          | П        | $\neg$        |          |          |            |               | 128        | ヿ            |              |              |              |                 |          | $\top$   | $\neg$   |
|  | 29       | П             |                |           | Т            | T.       |          |          |          |          |          |      |             | 79       |                 | Т       |          |          | $\neg \vdash$ | 1        |          |            |               | 129        |              |              |              | 1            |                 |          | $\top$   | 7        |
| 10   | 30       | П             |                | I         |              |          |          |          |          |          |          |      |             | 80       |                 |         |          |          |               |          |          | , ,        |               | 130        | T            |              | T            |              |                 |          | 丁        | $\neg$   |
| 1/   | 31       | 1             | Ц              |           |              |          |          |          |          |          |          | 12.5 |             | 81       |                 | T       |          |          |               |          |          |            |               | 131        |              |              | 1            |              |                 |          | $\top$   | ٦        |
| 12   | 32       | =             | Ц              | 1         |              | _        | $\Box$   | $\perp$  |          |          |          | Fir  |             | 82       |                 |         |          |          |               |          |          |            |               | 132        | $\Box$       |              | I            |              |                 |          |          | ]        |
| 18   | 33       | V             | 11             | 1         | 4            | 4        | _        |          |          | $\Box$   |          |      |             | 83       | $\Box$          |         |          |          |               |          |          |            | . ]           | 133        | $oxed{oxed}$ | $oxed{\Box}$ | $oxed{\Box}$ |              |                 | $\Box$   | $\perp$  |          |
| 14   |          | V             | $\coprod$      | 1         | 4            | 4        | _        | _        |          | $\Box$   |          |      |             | 84       | $\sqcup$        | $\perp$ |          |          |               |          |          | \$ T       | ]             | 134        | $\Box$       |              |              |              |                 | $\Box$   | $\perp$  |          |
| B  | 35       | V             | H              | 1         | 4.           | 4        | $\dashv$ | _        |          | $\Box$   |          |      |             | 85       |                 | $\perp$ |          | Ц        | $\perp$       | Ш        |          |            |               | 135        |              | $\perp$      |              |              |                 | $\perp$  | $\perp$  | ┙        |
| 16   | 36       | 0             | Н              | 1         | 4            | 4        | -        | _        | _        |          | _        | 7-1  |             | 86       | 1               | 4.      | 4_       | Ш        | $\perp$       | Ш        | Ш        |            |               | 136        | $\perp$      |              | 1            | L            | Ш               | _[       | 1        |          |
| 12   | 37       | V             | H              | 1         | +            | +        | $\dashv$ |          | _        |          | _        |      |             | 87       | $\dashv$        | $\bot$  |          | $\vdash$ | $\perp$       | $\sqcup$ |          |            |               | 137        | _            | $\perp$      | $\perp$      | 1_           | Ш               | $\perp$  | $\perp$  |          |
| 18   | 38       | 1             | Ш              | 1         | 4            | +        | 4        | _        | _        |          |          | 71   |             | 88       | 4               | $\bot$  | 1        | $\sqcup$ | ┵             | ┷        |          |            |               | 138        | $\perp$      | $\perp$      | 4            | 4_           | Ш               | _        | 1        | $\perp$  |
| 18   | 39       | =             | 1              | +         | +            | +        | 4        | _        | $\dashv$ | _        | 4        | 1    |             | 89       | $\dashv$        | 4       | 1        | $\dashv$ | 4.            | $\sqcup$ |          |            |               | 139        | 4            | $\perp$      | $\perp$      | ↓_           | $\sqcup$        | $\perp$  |          |          |
| 3.5  | 40       | $\vdash$      | 1              | +·        | +            | +        | 4        | 4        | -        |          | _        |      |             | 90       | _               |         | -        | -        | 4             |          |          |            |               | 140        | _            | _            | $\bot$       | 1            | $\sqcup$        | _        | 4        | $\perp$  |
| 2/   | 41       | -             | ╫              | +         | +            | +        | -1       |          | 4        | -        | $\dashv$ | , j. |             | 91       | -               | +       | 1        | -+       | +             | $\vdash$ |          | -          |               | 141        |              | $\perp$      | $\perp$      | <b>L</b> .   | $\sqcup$        | 4        | 4        | _        |
| 22   | 42       | -             | 1              | +         | +            | +        | +        | $\dashv$ |          |          |          | : }  |             | 92       | -               | - -     | +        | $\dashv$ | -             | $\dashv$ | _        |            |               | 142        | $\dashv$     | - -          |              |              | -               | 4        | +        | 4        |
| 23   | 43<br>44 | $\vdash$      | -              | 1         | +            | +        | -        | $\dashv$ | -+       |          | $\dashv$ |      |             | 93<br>94 | $\dashv$        | +-      | +        | -        | +             | $\dashv$ | _        | 1          |               | 143        | -            | +            | - -          | <u> </u>     | $\sqcup$        | +        | +        | 4        |
|  | 45       | -             | ╁╴             | +         | +            | +        | +        |          | $\dashv$ | -+       | -        |      | $\dashv$    | 95       | $\dashv$        | +-      | +        | $\dashv$ | +-            |          |          |            |               | 144        |              | +            | +            | -            | $\vdash \vdash$ | -+       | +        | $\dashv$ |
|  | 46       | $\vdash$      | +-             | +         | +-           | +        |          | $\dashv$ | $\dashv$ |          | $\neg$   | : H  |             | 96       | -               | +       | +        | +        | +             | +        | {        |            |               | 145        | +            | +            | +            | $\vdash$     | $\vdash$        | 4        | - -      | 4        |
|  | 47       | <del> -</del> | <del>  -</del> | +         | 十            | +        | +        |          | $\dashv$ |          | $\dashv$ | }    |             | 97       | $\dashv$        | +       | +        | $\dashv$ | +             | +        | -        | -          |               | 146<br>147 | +            | +            | +            | Н            | $\vdash$        | +        | +        | 4        |
|  | 48       |               | <del>  -</del> | +-        | +            | +        | +        | $\dashv$ | $\dashv$ |          |          |      | -           | 98       | $\dashv$        | +       | ╁╌┤      | +        | +             | +        |          | 1          | -             | 147        |              | +            | +-           | $\vdash$     | $\vdash$        | +        | +        | -        |
| <del>                                     </del> | 49       |               | -              | t         | +            | +        | +        | $\dashv$ | $\dashv$ | $\dashv$ | ᅱ        | -    | $\dashv$    | 99       | +               | +-      | +        | +        | +             | ╁┼       | -        | : It       | $\rightarrow$ | 149        | +            | +            | ╁            | +            | $\dashv$        |          | +        | $\dashv$ |
| $\vdash$   | 50       | $\vdash$      | $\vdash$       | †-        | $^{\dagger}$ | +        | 十        | -        | ᅱ        | +        | ᅱ        | de.  | -           | 100      | +               | +       | $\vdash$ | $\dashv$ | +-            | ╁        |          | ŀ          |               | 150        | +            | +-           | +-           | $\vdash$     | -               | +        | +        | $\dashv$ |
|  | 50       | Щ             | <u> </u>       | _         | _            |          | ᆚ        | 1        |          |          |          | :::L | 1           | 100      |                 |         | 1.1      |          |               | 1        | :        | ٠L         |               | 100        |              |              |              | ∟            |                 | ᆚ        |          | ┙        |